Automatic Polarimeter LX103APR

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Description

Automatic Polarimeter LX103APR determines the optical rotation of substances and measures their specific rotation and sugar content. Equipped with an advanced optical rotation system and an intuitive, easy-to-operate interface, the instrument provides fast and reliable measurements and are widely used in the medicine, food, fragrance, sugar, and other related industries.

Specifications

Working wavelength	589.3 nm
Light source	LED Cold light source + High-precision interference filter
Measuring range	Optical rotation ± 90°
Brix	± 259°Z
Minimum reading	0.0001°
Accuracy	± 0.002°
Repeatability	0.001° (Optical rotation)
Measurement mode	Optical rotation, specific rotation, concentration, sugar content and custom formula
Test function	Single, multiple, continuous measurement mode
Temperature control range	10°C - 60°C
Temperature resolution	0.01°C
Temperature control accuracy	± 0.03°C
Display mode	10.4-inch TFT Color touch screen
Standard test tube	200 mm, 100 mm Common type, 100 mm temperature control type
Light transmittance	0.01%
Data storage	128 G
User management	Four-level authority management
Multiple export formats	PDF and Excel

Communication interface	USB connection, RS232 connection, VGA, Ethernet
Instrument level	0.01 Level
Power	250 W
Power supply	220 V ± 22 V, 50 Hz ± 1 Hz
External dimension (L x W x H)	715 x 355 x 280 mm
Net weight	20 Kg
Packing dimension (L x W x H)	820 x 480 x 470 mm
Gross weight	32 Kg

Features

- Built-in Peltier temperature control
- Measurement modes include optical rotation, concentration and custom modes
- LED Cold light source
- Multi-level authority management
- 10.4-inch TFT color touch screen with user-friendly operation
- Integrated automatic calibration system
- Fully compliant with 21 CFR requirements (electronic signatures, multi-function search, audit trail, and method library)
- Support Wi-Fi printing and data statistical retrieval
- 128 GB data storage with multiple export formats including PDF and Excel

Applications

- Automatic Polarimeter is used across medicine, food, agriculture, petroleum, fragrance, and health industries to analyze optically active substances such as sugars, antibiotics, vitamins, essential oils, and agricultural compounds.

Standard Accessories

- HP Printer
- Cloud service
- MD 5 code verification
- Custom formula

Optional Accessories

- 50 mm and 200 mm Long hastelloy temperature control tube
- Mouse
- Keyboard connection
- Printer/wireless network printer

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